Stellar Pulsation Meeting Program with Timeline

Monday, June 1 Schedule

8:00–8:45 Put up posters

8:45-9:00 Welcome

Session I. Cepheids and the Distance Scale Chair: W. Gieren

9:00-9:30 Thomas Barnes, Cepheid Distance Scale (Invited)

9:30-9:45 Wolfgang Gieren, A direct distance to the LMC from Cepheid variables

9:45-10:00 Giuseppe Bono, The Cepheid period-luminosity relation and the extragalactic distance scale

10:00-10:15 Lucas Macri, The SH0ES project: HST observations of Cepheids in NGC 4258 and type Ia SN hosts and implications for the Hubble Constant

10:15-10:45 Coffee break and Poster viewing

10:45-11:00 Nicolas Nardetto, From the dynamics of Cepheids to the Milky Way rotation, and the distance scale calibration

11:00-11:15 Shashi Kanbur, Multiphase PC/PL relations: Comparison between theory and observations

Session II. Cepheid Theory and Observations Chair: Stephen Becker

11:15-11:45 J. Robert Buchler, Cepheid Pulsation Theory (Invited)

11:45-noon Victoria Scowcroft, The effect of metallicity on Cepheid magnitudes and the distance to M33

Noon-1:15 Lunch

1:15-1:45 David Turner, Polaris and its Kin (Invited)

- 1:45-2:00 Nancy Evans, Fundamental Parameters of Cepheids: Masses and Multiplicity
- 2:00-2:15 Radek Smolec, On resonant and non-resonant origin of double-mode Cepheid pulsation
- 2:15-2:30 Antoine Merand, What we learned from interferometric observations of Cepheids
- 2:30-2:45 Igor Soszynski, OGLE Data (short invited talk)
- 2:45-3:00 Edward Schmidt, Mining sky surveys for astrophysically interesting variable stars: The Cepheid period range
- 3:00-3:30 Coffee Break and Poster Viewing

Session III. Red Giants and Supergiants Chair: Peter Wood

- 3:30-4:00 Lee Anne Willson, Red Giant and Supergiant Pulsations (Invited)
- 4:00-4:15 Christine Nicholls, New results on long secondary periods in red giants
- 4:15-4:30 Saskia Hekker, Red giants observed with CoRoT
- 4:30-4:45 Michelle Creech-Eakman, Multiwavelength study of pulsation and dust production in Mira variables using optical interferometry for constraints
- 4:45-5:00 Hilding R. Neilson, The connection between pulsation, mass loss, and circumstellar shells in classical Cepheids

Tuesday, June 2 Schedule

Session IV. RR Lyrae Variables in Stellar Systems Chair: Thomas Beach

9:00-9:30 Horace Smith, RR Lyrae Variables in Stellar Systems (Invited)

9:30-9:45 James Nemec, The variable stars in the LMC star cluster NGC 2257

9:45-10:00 George Wallerstein, Carbon-rich RR Lyrae stars

Session V. RR Lyrae Pulsation Theory and Observations Chair: Giuseppe Bono

10:00-10:30 Marcella Marconi, RR Lyrae Pulsation Theory (Invited)

10:30-noon Coffee break and Poster viewing

Noon to 1:00 pm Lunch

1:00-1:15 Annie Baglin, Seismic Landscape as seen from CoRoT (short invited talk)

1:15-1:30 Merieme Chadid, First RR Lyrae light curve from CoRoT: Big challenge and constraint to the theoretical models

1:30-1:45 Margit Paparo, Shock wave and pulsation connection in a monoperiodic CoRoT RR Lyrae star

1:45-2:00 Istvan Dekany, Physical Properties of double-mode RR Lyrae stars based on pulsation and evolution models

2:00-2:30 Coffee Break and Conference Photo

Session VI. The Blazhko Effect Chair: Merieme Chadid

2:30-3:00 Geza Kovacs, The Blazhko Effect (invited)

3:00-3:15 Johanna Jurcsik, New results of the Konkoly Blazhko group

3:15-3:30 Arthur N. Cox, Radial and nonradial beating modes for RR Lyrae variable star Blazhko effects

3:30-3:45 Short Stretching Break

- 3:45 -4:00 Katrien Kolenberg, Observational constraints on the magnetic field of RR Lyrae stars
- 4:00-4:15 Adam Sodor, Changes in mean global physical parameters of Blazhko variables derived from multicolour photometry
- 4:15-5:00 Additional poster viewing time

Wednesday, June 3 Schedule

Session VII. B Star Pulsations Chair Wojciech Dziembowksi

- 9:00-9:30 Arthur N. Cox, LBV and Wolf Rayet Variables (invited)
- 9:30-10:00 Luis Balona: Beta Cephei, SPB, and Be variables (Invited)
- 10:00-10:15 A. Pigulski, Beta Cephei Stars from the ASAS: A New Look at Hot Pulsators (short invited talk)
- 10:15-10:45 Coffee Break and Poster Viewing
- 10:45-11:00 Richard Townsend, Toward self-consistent angular momentum transport in pulsating massive stars
- 11:00-11:15 Catherine Lovekin, Rotation and overshoot in the beta Cephei star theta Ophiuchi
- 11:15-11:30 Robert Deupree, Rotational Splitting of Pulsation Modes in Rapidly Rotating Stars

Session VIII. Solar-Type Variable Stars Chair: J. Molenda-Zakowicz

- 11:30–12:00 Guenter Houdek, Solar-type Variable Stars (invited)
- 12:00-12:15 Andrea Miglio, Inference from adiabatic analysis of solar-like oscillations in red giants

12:15 to 1:30 Lunch

1:30 Tour of Los Alamos, free afternoon

Thursday, June 4 Schedule

Session IX. Delta Scuti Stars Chair: Michel Breger

9:00-9:30 Gerald Handler, delta Scuti Variables (Invited)

9:30-9:45 Michel Breger, Period variations in delta Scuti stars

9:45-10:05 D.H. McNamara, Interesting properties of delta Scuti stars

10:05-10:20 Arti Garg, HADS in the LMC: Initial Findings from the SuperMACHO project

10:20-10:35 Ennio Poretti, The CoRoT era: a new look to delta Sct stars from space

10:35-noon Coffee Break and Poster viewing

Noon-1:00 Lunch

Session X. Solar Oscillations Part 1 Chair: J. Christensen-Dalsgaard

1:00-1:30 Alexander Kosovichev, Solar Oscillations (Invited)

1:30-1:45 Rafael Garcia, SOHO data (short invited talk)

1:45-2:00 Irina Kitiashvili, Realistic MHD numerical simulations of solar convection and oscillations in magnetic regions

Session XI. Gamma Doradus Variables Chair: J. Matthews

2:00-2:30 Karen Pollard, Gamma Doradus Variables (Invited)

- 2:30-2:45 Duncan Wright, Results from classification observations and a multi-site campaign on gamma Doradus and SPB type stars
- 2:45-3:15 Coffee Break and Poster Viewing

Session XII. Rapidly Oscillating Ap and Chemically-Peculiar stars Chair: H. Shibahashi

- 3:15-3:30 MOST Data, Jaymie Matthews (short invited talk)
- 3:30-4:00 Don Kurtz, Pulsation in chemically peculiar stars of the upper main sequence (Invited)
- 4:00-4:15 Hiromoto Shibahashi, Numerical simulations of line profile variation in roAp stars
- 4:15-4:30 Hideyuki Saio, Modelling pulsations of the roAp star HR 1217 (HD 24712)
- **6:00 Banquet at La Fonda Hotel** Guest speaker Robert Christy; also featuring Mozart clarinet quintet (clarinet + string quartet)

Friday, June 5 Schedule

Session XIII. Solar Oscillations Part II Chair: J. Christensen-Dalsgaard

- 9:00-9:15 Joanna Molenda-Zakowicz, Spectroscopic and photometric observations for Kepler asteroseismic targets
- 9:15-9:30 Travis Metcalfe, An asteroseismic model-fitting pipeline for solar-like oscillations
- 9:30-9:45 Joyce Ann Guzik, Early solar mass loss, opacity uncertainties, and the solar abundance problem

Session XIV. SDB, White Dwarf, and Post AGB Stars Chair: Paul Bradley

- 9:45-10:15 Stephane Charpinet, Subdwarf B Stars Pulsations (Invited)
- 10:15-10:45 Coffee Break and poster viewing
- 10:45-11:00 Bruce Hrivnak, Pulsational light and velocity variability in post-AGB stars
- 11:00-11:30 Mike Montgomery, White Dwarf and Pre-White Dwarf pulsations (Invited)
- 11:30-11:45 Barbara Castanheira, Seismological studies of ZZ Ceti stars
- 11:45-12:30 Poster Viewing
- 12:30-1:30 Lunch
- 1:30-1:45 Agnes Kim, Asteroseismological analysis of rich pulsating white dwarfs
- 1:45-2:00 Ann Marie Cody, Pulsation powered by deuterium burning in brown dwarfs and low-mass stars
- 2:00-2:15 Stephane Mathis, Magneto-Gravito-Inertial waves in strongly stratified stellar radiation zones
- 2:15-2:30 Zsofia Bognar, Light curve patterns and seismology of a white dwarf with complex pulsation
- 2:30-2:45 Giuliana Fiorentino, The ancient population of Messier 32
- 2:45-3:00 Short Stretching Break
- 3:00-4:00 Wrap-up, closing remarks, thanks, next pulsation meeting, proceedings directions
- 5:00 Bus departs for Albuquerque Grand Hotel near airport.